

Print selected from Online session Page 1 10/06/2003

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(FILE 'HOME' ENTERED AT 15:48:55 ON 06 OCT 2003)

FILE 'CAPLUS' ENTERED AT 15:49:05 ON 06 OCT 2003

L1	11 S	CATALYST (P) GRAPHITE (P) (YTTRIUM OR LANTHANUM)
L2	0 S	CATYLIST (P) GRAPHITE (P) SCANDIUM
L3	1 S	CATALYST (P) GRAPHITE (P) SCANDIUM

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1996:606490 CAPLUS

DOCUMENT NUMBER: 125:255050

TITLE: Metallic oxide catalyzed growth of carbon nanotubes

AUTHOR(S): Ohkohchi, M.; Zhao, X.; Wang, M.; Ando, Y.

CORPORATE SOURCE: Dep. of Physics, Meijo Univ., Nagoya, 468, Japan

SOURCE: Fullerene Science and Technology (1996), 4(5), 977-988

CODEN: FTECEG; ISSN: 1064-122X

PUBLISHER: Dekker

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Carbon nanotubes were created in the cathode deposit by DC arc-discharge evapn. of graphite rods contg. Y2O3, La2O3 or Sc2O3. The oxides have catalytic action in promoting growth of the nanotubes. The most remarkable catalytic effect was obsd. for the case of metallic oxide addn. 2-8 wt% and arc current 165-196 A.

IT Carbon fibers, preparation

RL: PEP (Physical, engineering or chemical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)

(nanotubes; catalyzed growth of carbon nanotubes in the cathode deposit of arc-discharge evapn. from graphite rods contg. Y2O3, La2O3 or Sc2O3)

IT 1312-81-8, Lanthanum oxide (La2O3) 1314-36-9, Yttrium oxide (Y2O3), uses 12060-08-1, **Scandium** oxide (Sc2O3)

RL: CAT (Catalyst use); USES (Uses)

(**catalyst**; catalyzed growth of carbon nanotubes in the cathode deposit of arc-discharge evapn. from **graphite** rods contg. Y2O3, La2O3 or Sc2O3)

IT 7440-44-0P, Carbon, preparation

RL: PEP (Physical, engineering or chemical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)

(nanotubes; catalyzed growth of carbon nanotubes in the cathode deposit of arc-discharge evapn. from graphite rods contg. Y2O3, La2O3 or Sc2O3)

IT 7782-42-5, Graphite, processes

RL: PEP (Physical, engineering or chemical process); PROC (Process)

(rods, precursor; catalyzed growth of carbon nanotubes in the cathode deposit of arc-discharge evapn. from graphite rods contg. Y2O3, La2O3 or Sc2O3)

L Number	Hits	Search Text	DB	Time stamp
1	889	423/448.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/06 16:24
2	4	423/448.ccls. and (scandium yttrium lanthanide actinide)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/06 16:27
3	152	423/448.ccls. and catalyst	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/06 16:52
4	86	(graphitized or graphitizing) near3 catalyst	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/06 17:30
5	23	graphitizing near3 catalyst	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/06 17:31